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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,063	08/01/2006	Koji Abe	740709-561	4336
22204	7590	05/21/2009	EXAMINER	
NIXON PEABODY, LLP			WEINER, LAURA S	
401 9TH STREET, NW			ART UNIT	PAPER NUMBER
SUITE 900				1795
WASHINGTON, DC 20004-2128			MAIL DATE	DELIVERY MODE
			05/21/2009	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/588,063	<b>Applicant(s)</b> ABE, KOJI
	<b>Examiner</b> /Laura S. Weiner/	<b>Art Unit</b> 1795

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 01 August 2006.

2a) This action is FINAL.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-11 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-11 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date 9-7-06.

4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.

5) Notice of Informal Patent Application

6) Other: \_\_\_\_\_.

**DETAILED ACTION**

***Claim Rejections - 35 USC § 112***

1. Claims 2 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 2 and 9 are rejected because it is unclear if "wherein the two or more cyclic carbonate compounds" have to contain at least one from EC or PC or BC AND at least one from VC or dimethylvinylene carbonate or vinylethylene carbonate or fluoroethylene carbonate; or can have any at least two from EC or PC or BC or VC or dimethylvinylene carbonate or vinylethylene carbonate or fluoroethylene carbonate. This claim is unclear because of the use of "AND".

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Onuki (7,223,502).

Onuki teaches in column 31, a battery comprising a positive electrode, a negative electrode and an electrolyte. Onuki teaches in column 49, Example 28, an electrolyte comprising 2 parts by weight of vinylene carbonate [*one cyclic carbonate*], 3 parts by weight of fluorobenzene [*2 wt% of a fluorobenzene compound*], 1 part by weight of cyclohexylbenzene [*1 wt% of a cyclohexylbenzene compound*] and 94 parts by weight of ethylene carbonate [*second cyclic carbonate*] and ethyl methyl carbonate in a volume ratio of 3:7). Onuki teaches in column 28, lines 39-50, that the overcharge inhibitor can be cyclohexylbenzene, etc. and partially fluorinated products of cyclohexylbenzene such as cyclohexylfluorobenzene [*cyclohexylbenzene compound having a halogenated benzene ring*], etc. Onuki teaches in column 32, that the battery was charged to 4.2V.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Onuki (7,223,502).

Onuki teaches in column 31, a battery comprising a positive electrode, a negative electrode and an electrolyte. Onuki teaches in column 49, Example 28, an electrolyte comprising 2 parts by weight of vinylene carbonate [*one cyclic carbonate*], 3

parts by weight of fluorobenzene [*2 wt% of a fluorobenzene compound*], 1 part by weight of cyclohexylbenzene [*1 wt% of a cyclohexylbenzene compound*] and 94 parts by weight of ethylene carbonate [*second cyclic carbonate*] and ethyl methyl carbonate in a volume ratio of 3:7). Onuki teaches in column 28, lines 39-50, that the overcharge inhibitor can be cyclohexylbenzene, etc. and partially fluorinated products of cyclohexylbenzene such as cyclohexylfluorobenzene [*cyclohexylbenzene compound having a halogenated benzene ring*], etc. Onuki teaches in column 32, that the battery was charged to 4.2V.

Onuki discloses the claimed invention except for specifically teaching that cyclohexylfluorobenzene was used in the Example instead of cyclohexylbenzene.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use cyclohexylfluorobenzene instead of cyclohexylbenzene as the overcharge inhibitor because Onuki teaches that both these overcharge inhibitors can be used in the electrolyte as explained above and one would expect therefore that these overcharge inhibitor materials would function in a similar way and give similar results.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to /Laura S. Weiner/ whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Laura S Weiner/  
Primary Examiner  
Art Unit 1795

May 19, 2009